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Semin Immunol. 1998 Oct;10(5):383-90. Review.

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☐ 2: Utsumi J, Mizuno Y, Hosoi K, Okano K, Sawada R, Kajitani M, Sakai I, Naruto M, Shimizu H.

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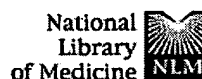
Eur J Biochem. 1989 May 15;181(3):545-53.

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☐ **1: Svenningsson A, Andersson M, Olsson T.**

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Lakartidningen. 1998 Dec 2;95(49):5623-7, 5630. Review. Swedish.
PMID: 9863300 [PubMed - indexed for MEDLINE]

☐ **2: Eppstein DA, Van der Pas MA, Gloff CA, Soike KF.**

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Liposomal interferon-beta: sustained release treatment of simian varicella virus infection in monkeys.

J Infect Dis. 1989 Apr;159(4):616-20.
PMID: 2538517 [PubMed - indexed for MEDLINE]

☐ **3: Igawa T, Maitani Y, Machida Y, Nagai T.**

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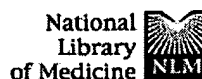
Effect of absorption promoters in intranasal administration of human fibroblast interferon as a powder dosage form in rabbits.

Chem Pharm Bull (Tokyo). 1989 Feb;37(2):418-21.
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☐ 1: Prep Biochem 1992 Jun;22(2):105-21

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Isolation, purification and biochemical characterization of human placental interferons by tandem high-performance affinity chromatography.

Aboagye-Mathiesen G, Toth FD, Dalsgaard AM, Petersen PM, Zachar V, Ebbesen P.

Department of Virus and Cancer, Danish Cancer Society, Aarhus.

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Human placental trophoblasts, fibroblasts and the trophoblast-derived malignant cell JAR are potent producers of interferons (IFNs) when stimulated with Sendai virus. The three cell lines produced different levels and compositions of IFN-alpha subtypes and IFN-beta. Anti-IFN globulins, Cibacron Blue F3GA and Concanavalin A were covalently immobilized on pressure-stable, macroporous polymeric matrices derivatized with vinyl sulphone (HEMA-BIO 1000 VS and HEMA 1000 VS). These supports were packed in biocompatible PEEK columns and were coupled with switching valves, to develop a tandem high-performance affinity chromatographic (HPAC) method for the isolation, purification and biochemical characterization of the IFNs produced in Sendai virus-stimulated human placental trophoblasts, fibroblasts and trophoblast-derived malignant cell, JAR, cultures. Silver-stained SDS-PAGE and gel densitometric analysis revealed the purity of the purified proteins to be between 94 and 98%. Specific activities of the purified IFNs ranged between $0.37\text{--}2.76 \times 10^8$ IU/mg of protein with cumulative recoveries between 90 and 92.2%. The purified IFN components exhibited quantitatively different antiviral activities in human and bovine cell lines. The utility of the tandem method for the purification and characterization of human type 1 IFNs produced from other cell lines are also discussed.

PMID: 1377824 [PubMed - indexed for MEDLINE]

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